

CLAIMS

What is claimed is:

1. An electrode unit comprising:  
a first electrode plate having a first electrode uncoated portion on at least one side of a first electrode collector coated with at least a first electrode active material;  
a second electrode plate having a second electrode uncoated portion on at least one side of a second electrode collector coated with at least a second electrode active material; and  
a separator interposed between the first electrode plate and the second electrode plate,  
wherein a folded portion is provided on at least one edge of the first electrode plate and the second electrode plate to have portions of a same electrode plate face each other.
2. The electrode unit of claim 1, wherein the folded portion has an insulating tape attached thereto.
3. The electrode unit of claim 1, wherein the folded portion is provided at the uncoated portion of either the first or the second electrode plate.
4. The electrode unit of claim 1, wherein the folded portion is provided at a winding start portion of either the first or the second electrode plate.
5. The electrode unit of claim 1, wherein the folded portion is folded such that a burr portion at an edge of either the first or the second electrode collector contacts a same polarity.
6. The electrode unit of claim 1, wherein the folded portion of the second electrode plate is positioned at one side of at least a portion of the first electrode plate where the first electrode tab is disposed, wherein the separator is interposed between the folded portion and the first electrode plate.
7. The electrode unit of claim 6, further comprising an insulating tape attached to a portion of the second electrode plate corresponding to the first electrode tab of the first electrode plate.

8. The electrode unit of claim 1, wherein a length of the second electrode uncoated portion positioned at the innermost part of the electrode unit is 5 to 15 mm.

9. A secondary battery comprising:

an electrode unit having a first electrode plate having a first electrode uncoated portion on at least one side of a first electrode collector coated with at least a first electrode active material, a second electrode plate having a second electrode uncoated portion on at least one side of a second electrode collector coated with at least a second electrode active material, and a separator interposed between the first electrode plate and the second electrode plate; and

a case accommodating the electrode unit to be sealed, and having a terminal portion electrically connected to the electrode unit.

10. The secondary battery of claim 9, wherein a folded portion is provided at the uncoated portion of either the first or the second electrode plate.

11. The secondary battery of claim 10, wherein the folded portion is provided at a winding start portion of either the first or the second electrode plate.

12. The secondary battery of claim 10, wherein the folded portion is folded such that a burr portion at an edge of either the first or the second electrode collector contacts a same polarity.

13. The secondary battery of claim 10, wherein the folded portion of the second electrode plate is positioned at one side of at least a portion of the first electrode plate where the first electrode tab is disposed, wherein the separator is interposed between the folded portion and the first electrode plate.

14. The secondary battery of claim 13, further comprising an insulating tape attached to a portion of the second electrode plate corresponding to the first electrode tab of the first electrode plate.

15. The secondary battery of claim 9, wherein a length of the second electrode uncoated portion positioned at the innermost part of the electrode unit is 5 to 15 mm.

16. The secondary battery of claim 10, wherein the folded portion has an insulating tape attached thereto.

17. The electrode unit of claim 1, wherein the first electrode plate is a negative electrode plate having a first electrode collector comprising a metal foil.

18. The secondary battery of claim 9, wherein the first electrode plate is a negative electrode plate having a first electrode collector comprising a metal foil.

19. The electrode unit of claim 1, wherein the first electrode active material comprises a carbon material.

20. The secondary battery of claim 9, wherein the first electrode active material comprises a carbon material.